

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/548,404  
Source: 10/10  
Date Processed by STIC: 9/21/05

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 09/21/2005

PATENT APPLICATION: US/10/548,404

TIME: 16:58:40

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\09212005\J548404.raw

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3 <110> APPLICANT: Bayer AG, BHC
5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
6   PHOSPHODIESTERASE 1B (PDE1B)
8 <130> FILE REFERENCE: Le A 36 620
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/548,404
C--> 10 <141> CURRENT FILING DATE: 2005-09-08
10 <160> NUMBER OF SEQ ID NOS: 5
12 <170> SOFTWARE: PatentIn version 3.1
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 2255
16 <212> TYPE: DNA
17 <213> ORGANISM: Homo sapiens
19 <400> SEQUENCE: 1
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22 gaggagtccg attgcccgtc acccctggag ctgaagtcag ccccagcaa gaagatgtgg      120
24 attaatcttc ggtctctgct gcgtacatg gtgaagcagt tggagaatgg ggagataaac      180
26 attgaggagc tgaagaaaaa tctggagtac acagcttctc tgctggaagc cgtctacata      240
28 gatgagacac ggcaaatctt ggacacggag gacgagctgc aggagctgcg gtcagatgcc      300
30 gtgccttcgg aggtgcggga ctggctggcc tccaccttca cccagcaggc ccgggccaaa      360
32 ggccgcccag cagaggagaa gccaagtctc cgaagcattg tgcacgctgt gcaggctggg      420
34 atcttcgtgg aacggatgtt ccggagaaca tacacctctg tgggccccac ttactctact      480
36 gcggttctca actgtctcaa gaacctggat ctctggtgct ttgatgtctt ttccttgaac      540
38 caggcagcag atgacctatg cctgaggacc attgtttttg agttgctgac tcggcataac      600
40 ctcatcagcc gcttcaagat tcccactgtg tttttgatga gtttcttga tgccttggag      660
42 acaggctatg ggaagtacaa gaatccttac cacaaccaga tccacgcagc cgatgttacc      720
44 cagacagtcc attgcttctt gctccgcaca gggatggtgc actgcctgtc ggagattgag      780
46 ctcttgccca tcacttttgc tgcagctatc catgattatg agcacacggg cactaccaac      840
48 agcttccaca tccagaccaa gtcagaatgt gccatcgtgt acaatgatcg ttcagtgtg      900
50 gagaatcacc acatcagctc tgttttccga ttgatgcagg atgatgagat gaacattttc      960
52 atcaacctca ccaaggatga gttttagtaa ctccgagccc tggtcattga gatggtgttg     1020
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70 aagcagaaat ggaaggaacg ggcagcaagt ggcacacca accagatgtc cattgacgag     1560
72 ctgtccccc ctgaagaaga ggccccccca tcccctgccg aagatgaaca caaccagaat     1620
74 gggaatctgg attagccctg gggctggccc aggtcttcat tgagtccaaa gtgtttgatg     1680
76 tcatcagcac catccatcag gactggctcc cccatctgct ccaagggagc gtggtcgtgg     1740
78 aagaaacaac ccacctgaag gccaaatgcc agagatttgg ggttggggaa agggccctc     1800

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80 cccacctgac acccactggg gtgcacttta atgttcgggc agcaagactg gggaacttca 1860
82 ggctcccagt ggtcactgtg cccatccctc agcctctgga ttctcttcat ggccaggtgg 1920
84 ctgccaggga gcggggagct tcctggaggc ttcccagggc cttggggaag ggtcagagat 1980
86 gccagccccc tgggacctcc cccatccttt ttgcctccaa gtttctaagc aatacatttt 2040
88 ggggggttccc tcagccccc accccagatc ttagctggca ggtctgggtg ccccttttcc 2100
90 tcccctggga agggctggaa taggatagaa agctgggggt tttcagagcc ctatgtgtgg 2160
92 ggaggggagt ggattccttc agggcatggt acctttctag gatctgggaa tgggggtggag 2220
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98 <211> LENGTH: 536
99 <212> TYPE: PRT
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105 1 5 10 15
108 Cys Pro Ser Pro Leu Glu Leu Lys Ser Ala Pro Ser Lys Lys Met Trp
109 20 25 30
112 Ile Lys Leu Arg Ser Leu Leu Arg Tyr Met Val Lys Gln Leu Glu Asn
113 35 40 45
116 Gly Glu Ile Asn Ile Glu Glu Leu Lys Lys Asn Leu Glu Tyr Thr Ala
117 50 55 60
120 Ser Leu Leu Glu Ala Val Tyr Ile Asp Glu Thr Arg Gln Ile Leu Asp
121 65 70 75 80
124 Thr Glu Asp Glu Leu Gln Glu Leu Arg Ser Asp Ala Val Pro Ser Glu
125 85 90 95
128 Val Arg Asp Trp Leu Ala Ser Thr Phe Thr Gln Gln Ala Arg Ala Lys
129 100 105 110
132 Gly Arg Arg Ala Glu Glu Lys Pro Lys Phe Arg Ser Ile Val His Ala
133 115 120 125
136 Val Gln Ala Gly Ile Phe Val Glu Arg Met Phe Arg Arg Thr Tyr Thr
137 130 135 140
140 Ser Val Gly Pro Thr Tyr Ser Thr Ala Val Leu Asn Cys Leu Lys Asn
141 145 150 155 160
144 Leu Asp Leu Trp Cys Phe Asp Val Phe Ser Leu Asn Gln Ala Ala Asp
145 165 170 175
148 Asp His Ala Leu Arg Thr Ile Val Phe Glu Leu Leu Thr Arg His Asn
149 180 185 190
152 Leu Ile Ser Arg Phe Lys Ile Pro Thr Val Phe Leu Met Ser Phe Leu
153 195 200 205
156 Asp Ala Leu Glu Thr Gly Tyr Gly Lys Tyr Lys Asn Pro Tyr His Asn
157 210 215 220
160 Gln Ile His Ala Ala Asp Val Thr Gln Thr Val His Cys Phe Leu Leu
161 225 230 235 240
164 Arg Thr Gly Met Val His Cys Leu Ser Glu Ile Glu Leu Leu Ala Ile
165 245 250 255
168 Ile Phe Ala Ala Ala Ile His Asp Tyr Glu His Thr Gly Thr Thr Asn
169 260 265 270
172 Ser Phe His Ile Gln Thr Lys Ser Glu Cys Ala Ile Val Tyr Asn Asp
173 275 280 285

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176 Arg Ser Val Leu Glu Asn His His Ile Ser Ser Val Phe Arg Leu Met
177      290      295      300
180 Gln Asp Asp Glu Met Asn Ile Phe Ile Asn Leu Thr Lys Asp Glu Phe
181 305      310      315      320
184 Val Glu Leu Arg Ala Leu Val Ile Glu Met Val Leu Ala Thr Asp Met
185      325      330      335
188 Ser Cys His Phe Gln Gln Val Lys Thr Met Lys Thr Ala Leu Gln Gln
189      340      345      350
192 Leu Glu Arg Ile Asp Lys Pro Lys Ala Leu Ser Leu Leu Leu His Ala
193      355      360      365
196 Ala Asp Ile Ser His Pro Thr Lys Gln Trp Leu Val His Ser Arg Trp
197      370      375      380
200 Thr Lys Ala Leu Met Glu Glu Phe Phe Arg Gln Gly Asp Lys Glu Ala
201 385      390      395      400
204 Glu Leu Gly Leu Pro Phe Ser Pro Leu Cys Asp Arg Thr Ser Thr Leu
205      405      410      415
208 Val Ala Gln Ser Gln Ile Gly Phe Ile Asp Phe Ile Val Glu Pro Thr
209      420      425      430
212 Phe Ser Val Leu Thr Asp Val Ala Glu Lys Ser Val Gln Pro Leu Ala
213      435      440      445
216 Asp Glu Asp Ser Lys Ser Lys Asn Gln Pro Ser Phe Gln Trp Arg Gln
217      450      455      460
220 Pro Ser Leu Asp Val Glu Val Gly Asp Pro Asn Pro Asp Val Val Ser
221 465      470      475      480
224 Phe Arg Ser Thr Trp Val Lys Arg Ile Gln Glu Asn Lys Gln Lys Trp
225      485      490      495
228 Lys Glu Arg Ala Ala Ser Gly Ile Thr Asn Gln Met Ser Ile Asp Glu
229      500      505      510
232 Leu Ser Pro Cys Glu Glu Glu Ala Pro Pro Ser Pro Ala Glu Asp Glu
233      515      520      525
236 His Asn Gln Asn Gly Asn Leu Asp
237      530      535
240 <210> SEQ ID NO: 3
241 <211> LENGTH: 19
242 <212> TYPE: DNA
243 <213> ORGANISM: artificial sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: forward primer
248 <400> SEQUENCE: 3
249 tgtggaagtg ggagacccc
252 <210> SEQ ID NO: 4
253 <211> LENGTH: 19
254 <212> TYPE: DNA
255 <213> ORGANISM: artificial sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: reverse primer
260 <400> SEQUENCE: 4
261 ctgaatgcgc ttgaccag
264 <210> SEQ ID NO: 5

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19

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Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\09212005\J548404.raw

265 &lt;211&gt; LENGTH: 27

266 &lt;212&gt; TYPE: DNA

267 &lt;213&gt; ORGANISM: artificial sequence

269 &lt;220&gt; FEATURE:

270 &lt;223&gt; OTHER INFORMATION: probe

272 &lt;400&gt; SEQUENCE: 5

273 accctgatgt ggtcagcttt cgttcca

27

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/548,404

DATE: 09/21/2005

TIME: 16:58:41

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Output Set: N:\CRF4\09212005\J548404.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date